

## Appendix A

### Endangered, Threatened and Rare Species (Revised March 2000)

Rocky Mountain National Park uses the following sources to identify endangered, threatened and rare species that must be protected if found within the proposed project site.

Agencies have a variety of ways of tracking and measuring the biological imperilment of species. The U.S. Fish and Wildlife Service (USFWS) determines if a given species needs protection under the Endangered Species Act. There are three primary categories to federal listing:

#### *Federal Status Codes*

- LE Federal Endangered** – Listed as endangered by the USFWS. The species is in danger of extinction throughout all or a significant portion of its range. Endangered species have legal protection under federal law.
- LT Federal Threatened** – Listed as threatened by the USFWS. The species is likely to become endangered within the foreseeable future. Threatened species have legal protection under federal law.
- C Federal Candidate** – The USFWS is considering federal listing.

The Colorado Division of Wildlife also maintains a list of imperiled species for the state of Colorado. There are three primary categories to state listing:

#### *State Status Codes*

- E State Endangered** – Listed as endangered by the Colorado Division of Wildlife. The species is in danger of extirpation throughout all or a significant portion of its range within the state of Colorado. State endangered species have legal protection under Colorado Revised Statutes 33-2-105 Article 2.
- T State Threatened** – Listed as threatened by the Colorado Division of Wildlife. The species is likely to become endangered within the state of Colorado within the foreseeable future. State threatened species have legal protection under Colorado Revised Statutes 33-2-105 Article 2.
- SC State Special Concern** – Listed as species of concern by the Colorado Division of Wildlife.

The Colorado Natural Heritage Program (CNHP), based in Fort Collins manages a large database and ranking system for Colorado species. Their ranking system has two primary components – a ranking for the global status of the species (G), and a ranking for that part of the range found within the state (S). Numeric extensions are added to these on a scale of 1 (extremely rare) to 5 (common).

Natural Heritage ranks should not be interpreted as legal designations. Although most species protected under state or federal endangered species laws are extremely rare, not all rare species receive legal protection.

## Global Rank Codes

- G1** Critically imperiled globally because of extreme rarity (5 or fewer occurrences), or because of some factor of its biology making it especially vulnerable to extinction.
- G2** Imperiled globally because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extinction throughout its range.
- G3** Vulnerable throughout its range or found locally in a restricted range (21 to 100 occurrences).
- G4** Apparently secure globally, though it might be quite rare in parts of its range, especially at the periphery.
- G5** Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.
- ?** Uncertainty about an assigned global rank.
- T#** Trinomial rank used for subspecies or varieties. These species are ranked on the same criteria as G1-G5.

## State Rank Codes

- S1** Critically imperiled in state because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extirpation from the state.
- S2** Imperiled in state because of rarity (6 to 20 occurrences), or because of other factors demonstrably making it very vulnerable to extirpation from the state.
- S3** Vulnerable in the state (21 to 100 occurrences).
- S#B** Refers to the breeding season imperilment of species that are not permanent residents.
- S#N** Refers to the non-breeding season imperilment of species that are not permanent residents.
- SX** Presumed extirpated from the state.
- ?** Indicates uncertainty about an assigned state rank.

The Rocky Mountain National Park list of Endangered, Threatened and Rare Species does not include State Rank Codes S4 and S5 because these rankings indicate that the species is secure throughout its range.

Scientific Name	Common Name	Status		CNHP Rank	
		Federal	State	Global	State
Amphibians					
<i>Bufo boreas</i> Pop1	Boreal Toad	C	E	T1	S1
<i>Rana pipiens</i>	Northern Leopard Frog		SC	G5	S3
<i>Rana sylvatica</i>	Wood Frog			G5	S3
Birds					
<i>Accipiter gentilis</i>	Northern Goshawk			G5	S3B
<i>Aegolius funereus</i>	Boreal Owl			G5	S2
<i>Amphispiza belli</i>	Sage Sparrow			G5	S3B
<i>Ardea herodias</i>	Great Blue Heron			G5	S3B
<i>Bucephala albeola</i>	Bufflehead			G5	S1B
<i>Bucephala islandica</i>	Barrow's Goldeneye		SC	G5	S2B

Scientific Name	Common Name	Status		CNHP Rank	
		Federal	State	Global	State
<i>Circus cyaneus</i>	Northern Harrier			G5	S3B
<i>Cypseloides niger</i>	Black Swift			G4	S3B
<i>Dendroica pensylvanica</i>	Chestnut-Sided Warbler			G5	S2B
<i>Falco peregrinus anatum</i>	American Peregrine Falcon		SC	T4	S2B
<i>Grus canadensis tabida</i>	Greater Sandhill Crane		T	T4	S2B, S4N
<i>Haliaeetus leucocephalus</i>	Bald Eagle	LT	T	G4	S1B, S3N
<i>Melanerpes erythrocephalus</i>	Red-Headed Woodpecker			G5	S3B
<i>Pandion haliaetus</i>	Osprey			G5	S3B
<i>Setophaga ruticilla</i>	American Redstart			G5	S1B
<i>Vireo olivaceus</i>	Red-Eyed Vireo			G5	S3B
<b>Fish</b>					
<i>Catostomus platyrhynchus</i>	Mountain Sucker		SC	G5	S2?
<i>Oncorhynchus clarki pleuriticus</i>	Colorado River Cutthroat		SC	T3	S3
<i>Oncorhynchus clarki stomias</i>	Greenback Cutthroat	LT	T	T2T3	S2S3
<b>Mammals</b>					
<i>Canis lupus</i>	Gray Wolf	LE	E	G4	SX
<i>Felis lynx canadensis</i>	Lynx	LT	E	G5	S1
<i>Gulo gulo</i>	Wolverine	C	E	G4	S1
<i>Lutra canadensis*</i>	Northern River Otter*		E	G5	S3S4
<i>Sorex hoyimontanus</i>	Pygmy Shrew			T2T3	S2
<i>Sorex nanus</i>	Dwarf Shrew			G4	S2S3
<i>Ursus arctos</i>	Grizzly or Brown Bear	LT	E	G4	SX
<b>Invertebrates (Insects)</b>					
<i>Colorado luski</i>	A Buckmoth			G?	S1?
<i>Erebia theano ethela</i>	Edward's Alpine			G4	S3
<i>Hyles galli</i>	Galium Sphinx Moth			G?	S3?
<i>Oarisma edwardsii</i>	Edwards's Skipperling			G4	S3
<i>Oeneis polixenes</i>	Polixenes Arctic			G5	S3
<i>Pachysphinx modesta</i>	Modest Sphinx Moth			G?	S3?
<i>Paratrytone snowi</i>	Snow's Skipper			G4	S3
<i>Pyrgus ruralis</i>	Two-Banded Skipper			G4	S3
<i>Pyrgus xanthus</i>	Xanthus Skipper			G3G4	S3

Scientific Name	Common Name	Status		CNHP Rank	
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<i>Speyeria cybele cybele</i>	Great Spangled Fritillary			T5	S1
<i>Speyeria hydaspe</i>	Hydaspe Fritillary			G5	S2
<i>Speyeria nokomis nokomis</i>	Great Basin Silverspot Butterfly			T2	S1
<b>Mollusk</b>					
<i>Acroloxus coloradensis</i>	Rocky Mountain Capshell		SC	G?	S2
<b>Plants</b>					
<i>Aletes humilis</i>	Larimer Aletes			G2G3	S2S3
<i>Aquilegia saximontana</i>	Rocky Mountain Columbine			G3	S3
<i>Botrychium echo</i>	Reflected Moonwort			G2	S2
<i>Botrychium lanceolatum</i> var <i>lanceolatum</i>	Lance-Leaved Moonwort			T4	S2
<i>Botrychium lunaria</i>	Moonwort			G5	S2
<i>Botrychium minganense</i>	Mingan Moonwort			G4	S1
<i>Botrychium pallidum</i>	Pale Moonwort			G2	S2
<i>Carex leptalea</i>	Bristle-Stalk Sedge			G5	S1
<i>Cyripedium fasciculatum</i>	Purple's Lady's-Slipper			G4	S3
<i>Cystopteris montana</i>	Mountain Bladder Fern			G5	S1
<i>Draba grayana</i>	Gray's Peak Whitlow-Grass			G2	S2
<i>Drymaria effusa</i> var. <i>depressa</i>	Pinewoods Drymary			T4	S1
<i>Dryopteris expansa</i>	Spreading Wood Fern			G5	S1
<i>Juncus tweedyi</i>	Tweedy Rush			G3	S1
<i>Juncus vaseyi</i>	Vasey Rush			G5?	S1
<i>Liatris ligulistylis</i>	Gay-Feather			G5?	S1S2
<i>Lilium philadelphicum</i>	Wood Lily			G5	S3
<i>Listera borealis</i>	Northern Twayblade			G4	S2
<i>Listera convallarioides</i>	Broad-Leaved Twayblade			G5	S2
<i>Mimulus gemmiparus</i>	Weber Monkey Flower			G2	S2
<i>Papaver kluanense occidentale</i>	Alpine Poppy			T5	S2
<i>Parnassia kotzebuei</i>	Kotzebue Grass-of-Parnassus			G4	S2
<i>Penstemon cyathophorus</i>	Middle Park Penstemon			G3G4	S3

Scientific Name	Common Name	Status		CNHP Rank	
		Federal	State	Global	State
<i>Potentilla effusa</i> var. <i>rupicola</i>	Rocky Mountain Cinquefoil			T2	S2
<i>Salix serissima</i>	Autumn Willow			G4	S1
<i>Sisyrinchium pallidum</i>	Pale Blue-Eyed Grass			G3	S2
<i>Viola selkirkii</i>	Selkirk Violet			G5?	S1

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